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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,391	08/21/2007 Grenvil Marquis Dunn		1362-101.US	2990
23390 COLIN P ABR	7590 12/17/200 AHAMS	EXAMINER		
5850 CANOGA	·-	WOOD, JARED M		
SUITE 400 WOODLAND	HILLS, CA 91367	ART UNIT	PAPER NUMBER	
			4181	
		MAIL DATE	DELIVERY MODE	
			12/17/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		1	Application No. Applicant(s)					
			10/585,391		DUNN, GRENVIL MARQUIS			
		Ī	Examiner		Art Unit			
			JARED WOOD		4181			
Period fo	The MAILING DATE of this commur or Reply	nication appea	ars on the cover	sheet with the co	orrespondence ad	ldress		
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE IN Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum street or reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DAT s of 37 CFR 1.136(munication. tatutory period will v will, by statute, ca	TE OF THIS CO (a). In no event, howe apply and will expire Sause the application to	MMUNICATION ver, may a reply be tim SIX (6) MONTHS from to become ABANDONED	l. ely filed he mailing date of this c) (35 U.S.C. § 133).			
Status								
1) 又	Responsive to communication(s) file	ed on <i>21 Aug</i>	uust 2007					
,	Responsive to communication(s) filed on <u>21 August 2007</u> . This action is FINAL . 2b) This action is non-final.							
3)		<i>'—</i>			secution as to the	e merits is		
٥,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims			,				
· · ·								
•	Claim(s) <u>34-55</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
'=	Claim(s) is/are allowed.	ia/ana naisata	. al					
· · —	Claim(s) <u>34-38,40-43,49 and 52-54</u>	-						
	Claim(s) <u>39,44-48,50,51 and 55</u> is/a							
8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers							
9)⊠ The specification is objected to by the Examiner.								
10)	The drawing(s) filed on is/are	: а)∏ ассер	oted or b)□ obje	ected to by the E	xaminer.			
	Applicant may not request that any obje	ction to the dra	awing(s) be held	n abeyance. See	37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	5)	nterview Summary Paper No(s)/Mail Da Notice of Informal Pa Other:	te			

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DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities:

- 1. On page 1, line 2 of paragraph 4, the unit 'kilojoules per g mole' is used. The examiner believes the appropriate unit should be 'kilojoules per mole'.
- 2. On page 2, line 10 of paragraph 2, a comma should appear between the words 'holistically' and 'the.'
- 3. On page 3, line 1 of paragraph 4, a comma should appear between the words 'preferably' and 'all.'
- 4. On page 3, line 3 of paragraph 8, a comma should appear between the words 'preferably' and 'the.'
- 5. On page 3, line 1 of paragraph 9, a comma should appear between the words 'preferably' and 'the.'
- 6. On page 4, line 1 of paragraph 3, a comma should appear between the words 'preferably' and 'the.'
- 7. On page 4, line 1 of paragraph 6, a comma should appear between the words 'whole' and 'of' and the comma following the word 'of' should be removed.
- 8. On page 5, line 1 of paragraph 3, a comma should appear between the words 'preferably' and 'the.'

Appropriate correction is required.

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Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Clams 34-38, 43, 49, and 52-54 are rejected under 35 U.S.C. 102(b) as being anticipated by US 6,451,088 (Marsden et al.).

As to claims 34 and 52, Marsden teaches an multi-chambered, agitated autoclave pressure leaching process where, in order to control the processing temperatures, the autoclave slurry is flashed in a flash tank (column 8, line 50), which also reads on 54. The flashed product is direct to a solid-liquid separation apparatus such as a thickener, filter, or CCD circuit (column 8, line 62), which also reads on claim 43, where the leached residue (solids or underflow) is partly or, potentially, fully recycled back to the autoclave (column 8, line 27), which also reads on claim 49, or a feed tank upstream of the autoclave (column 8, line 42), which also reads on claims 36-38 and 53. The liquid portion of the flash (overflow) is passed to a solvent extraction step, following which, all or a portion of the raffinate is recycled back to the autoclave (column 10, line 19), which also reads on claim 35.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 40-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,451,088 (Marsden et al.).

The features of **claims 40-42** are related to an optimization of the pressure leaching process in the autoclave and are considered to be obvious. It is well settled that determination of cause effective variables such as these process parameters is within the skill of one practicing in the art. *In re Boesch*, 205 USPQ 215 (CCPA 1980).

Allowable Subject Matter

Claims 39, 44-48, 50-51, and 55 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The nearest prior art (US 6,451,088 and WO02/092862) does not contemplate using the returned

solids to control the leach viscosity and thereby the oxygen mass transfer nor do they contemplate the use of a solid-liquid separation immediately prior to the autoclave.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. WO02/092862 (US 7,374,732).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JARED WOOD whose telephone number is (571)270-5911. The examiner can normally be reached on Monday - Friday, 7:30 am - 5:00 pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on (571)272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MICHAEL MARCHESCHI/

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Primary Examiner, Art Unit 1793

/JARED WOOD/ Examiner, Art Unit 4181